



FT8332/FR8332 Fiber Transmitter and Receiver



**Thirty-Two Digitally Encoded
Video Channels**

C2652M (1/08)

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Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the points where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases shall be placed on the apparatus.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Installation should be done only by qualified personnel and conform to all local codes.
17. Use only installation methods and materials capable of supporting four times the maximum specified load.
18. A CCC-approved power cord must be used to power this equipment when used in China.

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Product Overview

DESCRIPTION

The FT8332 transmitter and FR8332 receiver provide the ability to transmit up to 32 composite video channels over one optical fiber (refer to Figure 1).

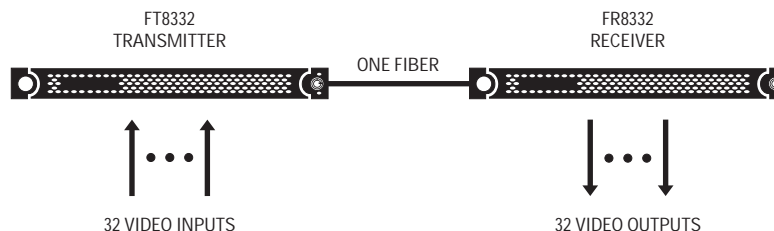


Figure 1. Thirty-Two Channel Video FT8332 Transmitter and FR8332 Receiver

Features of the FT8332/FR8332 fiber optic transmission system include the following:

- 8-bit digitally encoded video for high-quality multichannel video transmission over a single fiber
- Coarse Wavelength Division Multiplexing (CWDM) technology, which allows multiple wavelengths to be transmitted in a single fiber
- Multimode fiber support for distances up to 1 km (0.6 mi)
- Single-mode fiber support for distances up to 26 km (16.1 mi)
- Exceeds all requirements for the RS-250C Medium-Haul Transmission specification
- Compatible with NTSC, PAL, and SECAM video standards
- No performance adjustments required
- 12 VDC or 24 VAC power supply
- Stand-alone and rack-mountable design
- LED indicators for monitoring of video signal status, optical signal status, laser status, and operating power
- Laser diode for transmission of optical signals

NOTE: The FT8332 transmitter/FR8332 receiver is a Class 1 laser product that complies with FDA radiation performance standard 21CFR Subchapter J and with IEC 60825-1 Edition 1.2, 2001-08.

MODELS

The FT8332/FR8332 fiber transmitter and receiver consist of the following series of models:

Multimode Models:

FT8332MSTR	Thirty-two channel fiber optic video transmitter; multimode, ST connector
FR8332MSTR	Thirty-two channel fiber optic video receiver; multimode, ST connector

Single-Mode Models:

FT8332SSTR	Thirty-two channel fiber optic video transmitter; single-mode, ST connector
FR8332SSTR	Thirty-two channel fiber optic video receiver; single-mode, ST connector

NOTE: Conformal coated models are available upon request. Contact the factory for additional information.

OPTIONAL ACCESSORIES

The following optional accessories are available:

EPS5000-120	External rack power supply, 1 RU, dual 120 W power outputs
WM5300	Wall mount kit

FRONT PANEL

The front panel of the FT8332/FR8332 unit provides a removable bezel. Figure 2 illustrates the front of the unit with the bezel attached. Figure 3 illustrates the front of the unit with the bezel removed.

NOTE: The Contact Closure Activation and Data Activity LEDs shown in Figure 3 are not used.

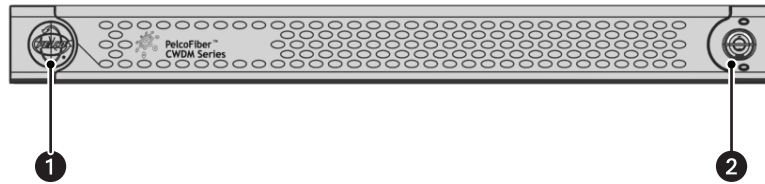


Figure 2. Front Panel of FT8332/FR8332 Unit with Bezel

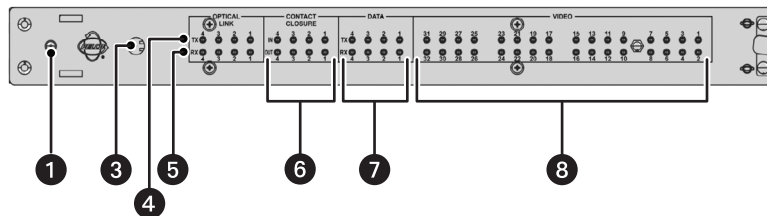


Figure 3. Front Panel of FT8332/FR8332 Unit Without Bezel

- ❶ **Power LED:** Lights the Pelco badge blue to indicate that power is being applied to the unit.
NOTE: When the bezel is removed from the front panel, the Power LED does not light to indicate that power is being applied to the unit.
- ❷ **Keylock:** Locks/unlocks the front bezel.
- ❸ **LED Activation Switch:** Lights the front-panel Optical Link and Video Present LEDs as appropriate when the bezel is removed.
NOTE: When the bezel is attached to the front panel, the Optical Link and Video Present LEDs do not light.
- ❹ **TX Optical Link LEDs 1-4:** (*Applicable to FT8332 transmitter only*) Light to indicate laser status. Green indicates that the laser is operating properly. Flashing red indicates that the laser has shut down.
NOTE: The TX Optical Link LEDs operate independently of one another. TX Optical Link LED 1 indicates the laser status of channels 1-8. TX Optical Link LED 2 indicates the laser status of channels 9-16. TX Optical Link LED 3 indicates the laser status of channels 17-24. TX Optical Link LED 4 indicates the laser status of channels 25-32.
- ❺ **RX Optical Link LEDs 1-4:** (*Applicable to FR8332 receiver only*) Light to indicate optical signal status. Green indicates that the optical signal is being received. Red indicates that the optical signal is not being received.
NOTE: The RX Optical Link LEDs operate independently of one another. RX Optical Link LED 1 indicates the optical signal status of channels 1-8. RX Optical Link LED 2 indicates the optical signal status of channels 9-16. RX Optical Link LED 3 indicates the optical signal status of channels 17-24. RX Optical Link LED 4 indicates the optical signal status of channels 25-32.
- ❻ **Contact Closure Activation LEDs:** Not used.
- ❼ **Data Activity LEDs:** Not used.
- ❽ **Video Present LEDs 1-32:** Light green on a per-channel basis to indicate that the incoming video signal is present on the channel. Light red on a per-channel basis to indicate that the incoming video signal is not present on the channel (video loss).

For troubleshooting information relating to the front-panel LEDs, refer to *Troubleshooting* on page 15.

REAR PANEL

Figure 4 illustrates the rear panel of the FT8332/FR8332 unit.

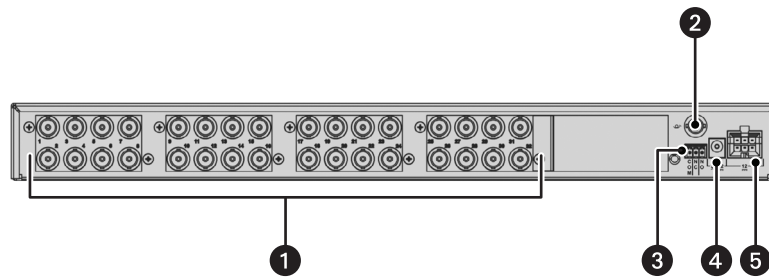


Figure 4. Rear Panel of FT8332 Transmitter/FR8332 Receiver

- ❶ **Video Connectors 1-32:** BNC connectors that provide 75-ohm analog video input (FT8332)/output (FR8332).
- ❷ **Fiber Optic Connector:** An ST multimode or single-mode connector.
- ❸ **Auxiliary Relay Output Connector:** A 3-pin header that provides a relay output to external equipment if an optical signal or laser fault occurs.
- ❹ **Stand-Alone Power Connector:** A 5-mm barrel connector for power connection of stand-alone unit. Accepts electrical power from an external 12 VDC power supply (provided) or from a 24 VAC power supply.
- ❺ **Rack Power Connector:** A 6-pin connector that accepts electrical power from an EIA rack-mounted power supply such as the Pelco 12 VDC EPS5000-120 power supply.

For additional information about rear-panel connections, refer to *Installation* on page 8.

Installation

PACKAGE CONTENTS

The following items are supplied:

- 1 FT8332 transmitter or FR8332 receiver
- 1 Accessory pack:
 - 1 Screw terminal, 3-pin (for relay)
 - 1 Regulated switching power supply, 90-264 VAC, 47-63 Hz input, 12 VDC (66 W) output
 - 3 Power cords (North American, U.K., and European)
 - 2 Front bezel keys
- 1 Rack mount kit (included with accessory pack):
 - 2 Chassis mounting brackets with thumbscrews
 - 6 Screws, 6-32 x 0.25-inch, Phillips flat head (three for each bracket)
 - 2 Adjustable support rail sets (each set includes one front-mount rail and one rear-mount rail)
 - 6 Screws, 8-32 x 0.375-inch, Phillips truss head (three for each support rail)
 - 4 Screws, 10-32 x 0.5-inch, Phillips flat head (two for each front rail)
 - 4 Screws, 10-32 x 0.5-inch, Phillips pan head (two for each rear rail)
 - 10 Cage nuts, 10-32
- 1 FT8332/FR8332 Fiber Transmitter and Receiver Installation manual

Refer to Figure 5, Figure 6, and Figure 7 for illustrations of the package contents.

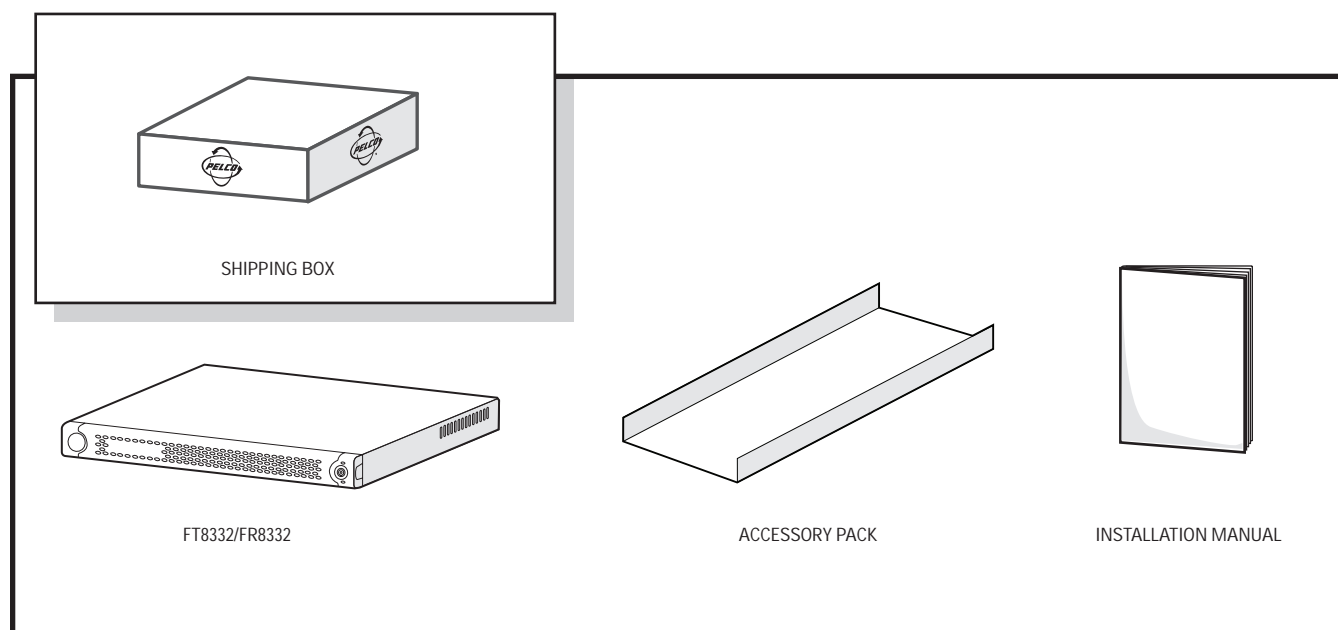


Figure 5. Major Package Components

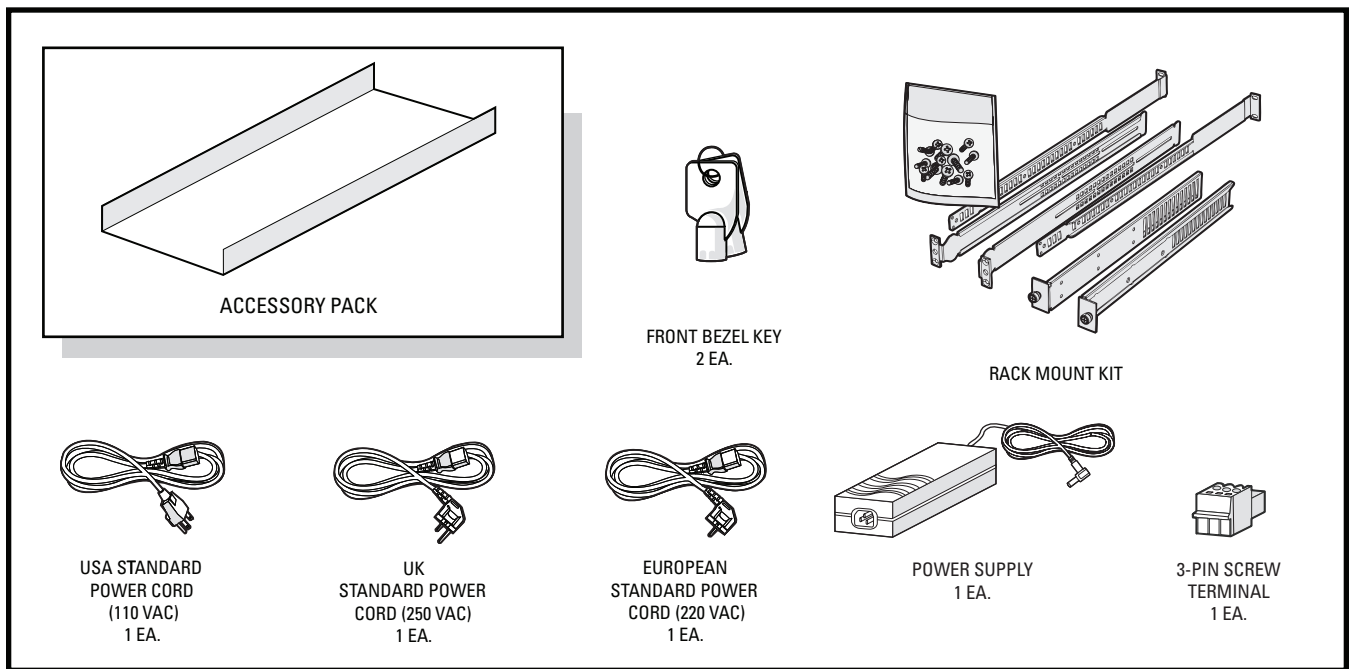


Figure 6. Accessory Pack

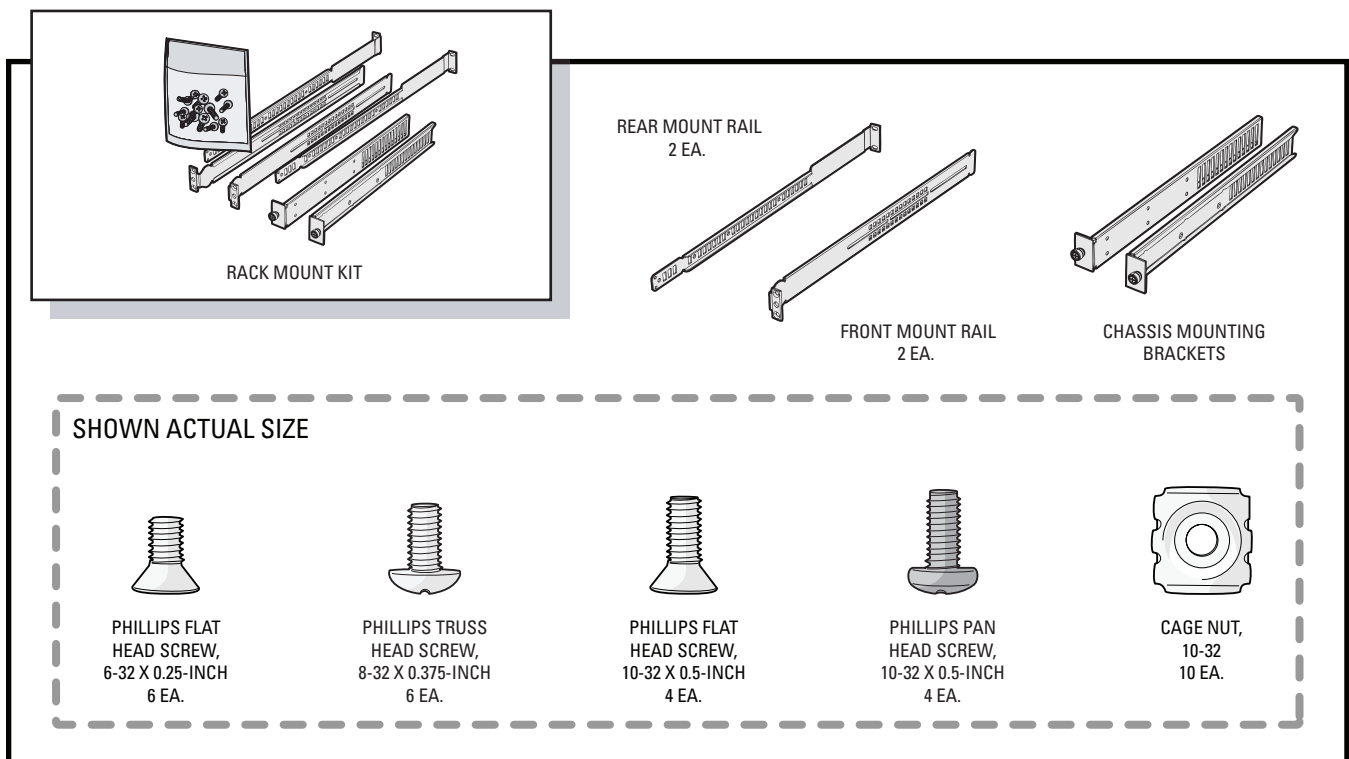


Figure 7. Rack Mount Kit

MOUNTING THE TRANSMITTER/RECEIVER

The FT8332 transmitter/FR8332 receiver can be mounted into a rack (refer to *Mounting the Transmitter/Receiver into a Rack*) or can be used as a stand-alone unit. As a stand-alone unit, the transmitter/receiver can be placed on a desktop or can be mounted to a wall (refer to *Mounting the Transmitter/Receiver to a Wall* on page 13).

MOUNTING THE TRANSMITTER/RECEIVER INTO A RACK

The FT8332 transmitter/FR8332 receiver can mount into an industry-standard 19-inch (48 cm) equipment rack. The rack must meet the following requirements:

- EIA-310-D compliant
- Rack column depth: 24 to 30 inches (61 to 76 cm)
- Column-mounting hole provisions: 10-32 UNF-2B threaded holes or square window holes on front columns
- Door systems are acceptable. Front doors must have at least 2 inches (5.1 cm) between the front bezel of the transmitter/receiver and the inside of the door. Rear doors may only be used on rack columns that are more than 26 inches (66 cm) deep

The transmitter/receiver occupies one rack unit (1.75 inches or 4.5 cm) of vertical rack space.

WARNINGS:

- Secure the front and rear screws to the support rails.
- Make sure that the FT8332 transmitter/FR8332 receiver is level.
- Slots and openings in the cabinet provide ventilation to prevent the unit from overheating. Do not block those openings. Never place the unit near or over a radiator or heat register. When placing the unit in a rack, be sure to provide proper ventilation. Allow at least one rack unit (1.75 inches or 4.44 cm) of spacing between units.

To install the transmitter/receiver into a rack, do the following:

NOTE: The hardware necessary to mount the transmitter/receiver into a rack is supplied with the unit (refer to Figure 7).

1. Attach one chassis mounting bracket to each side of the unit using three 6-32 x 0.25-inch Phillips flat head screws for each bracket (refer to Figure 8).

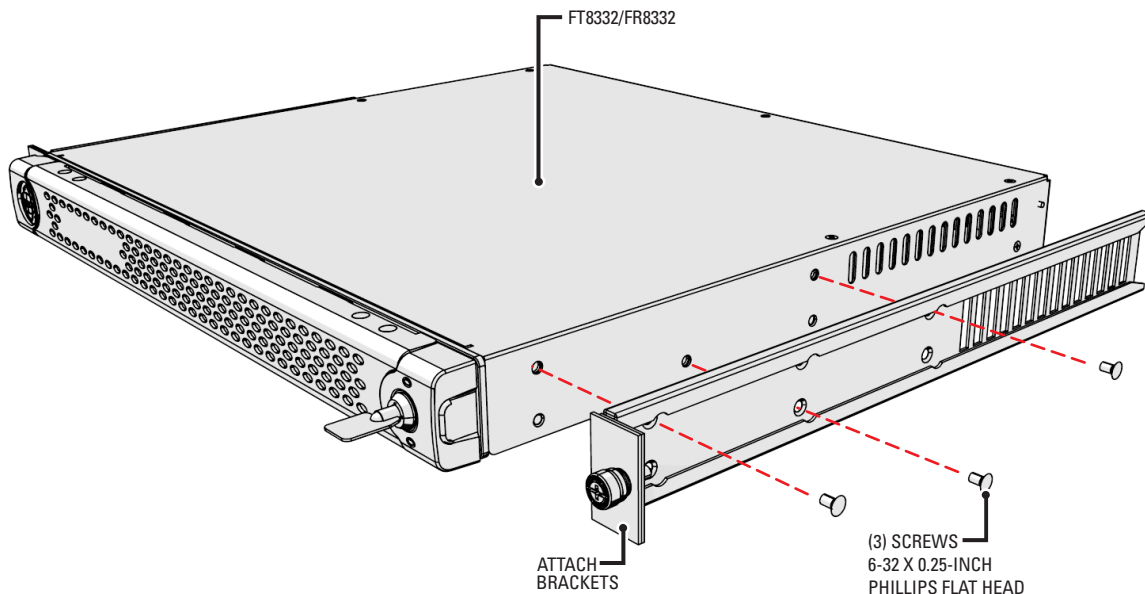


Figure 8. Attaching Chassis Mounting Brackets

2. Mount one front-mount support rail with one rear-mount support rail back-to-back, and attach the rails using three 8-32 x 0.375-inch Phillips truss head screws (refer to Figure 9). Leave the screws loose until the support rails are attached to the rack in step 7.

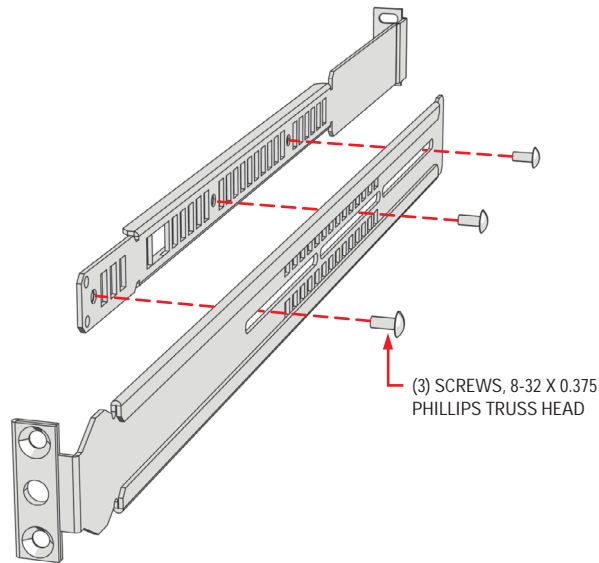


Figure 9. Assembling a Support Rail

3. Repeat step 2 for the other set of front-mount and rear-mount support rails.
4. If you are installing the unit into a square-hole rack, continue with this step; otherwise, skip this step and proceed to step 5. Insert 10 cage nuts into the square-hole rack (refer to Figure 10). Align the top and bottom cage nuts on the front racks with the top and bottom cage nuts on the rear racks.

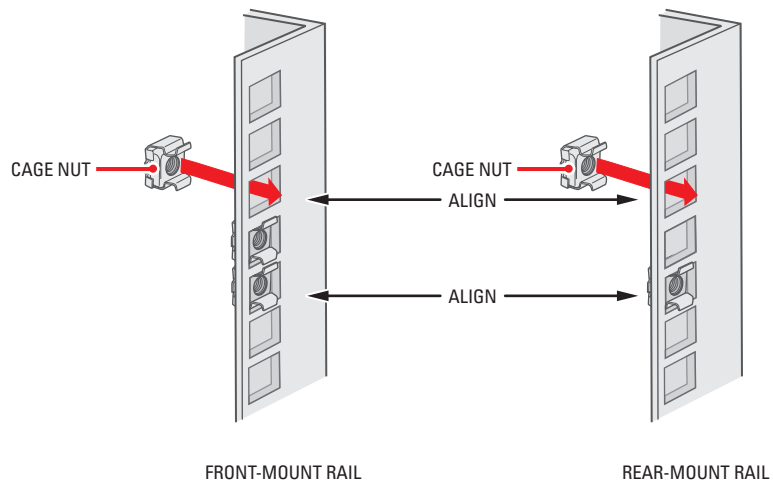


Figure 10. Inserting Cage Nuts

5. Attach one support rail assembly to the equipment rack in the desired location as follows (refer to Figure 11):

NOTE: The support rail assemblies are identical and may be used on either the right or left side of the rack.

- a. Position the ear of the front-mount rail against the front of the equipment rack, and align the top and bottom holes in the ear of the rail with the threaded holes (or cage nuts) in the rack.
- b. Using two 10-32 x 0.5-inch Phillips flat head screws, attach the ear of the rail to the front of the rack. Insert the screws from the outside of the rack, pointing toward the back of the rack.
- c. Adjust the rails to the correct depth of the equipment rack by sliding the rear-mount rail to the back of the equipment rack.

- d. Position the ear of the rear-mount rail against the rear exterior of the equipment rack, and align the top and bottom holes in the ear of the rail with the threaded holes (or cage nuts) in the equipment rack.
- e. Using two 10-32 x 0.5-inch Phillips pan head screws, attach the ear of the rail to the rear of the rack. Insert the screws from the outside of the rack, pointing toward the front of the rack (refer to Figure 11).

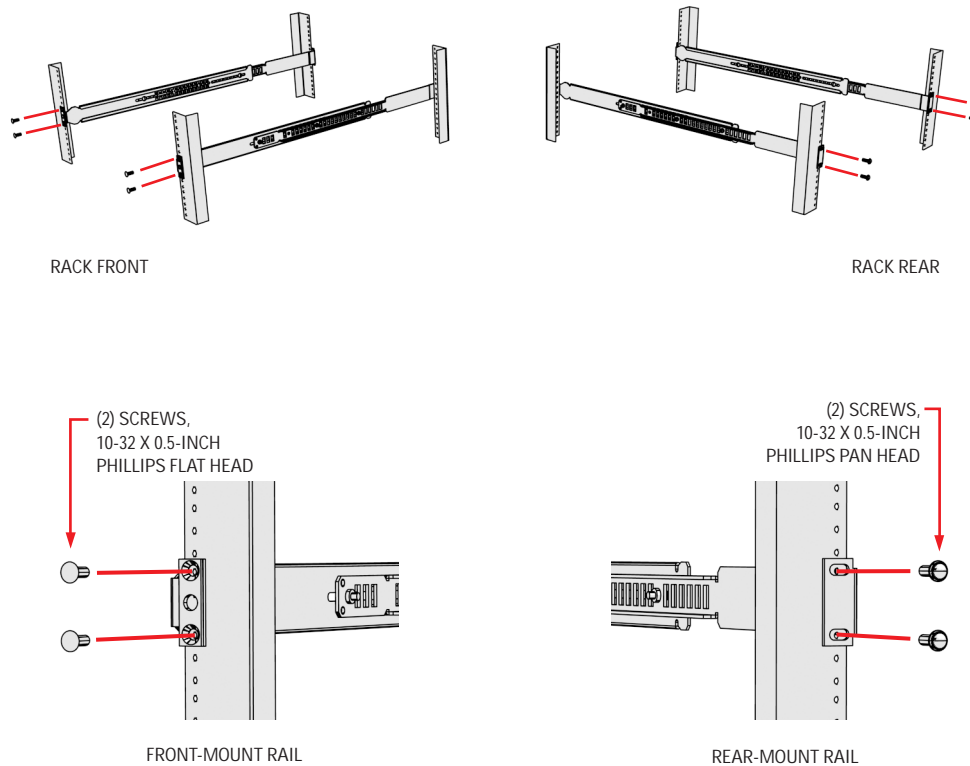


Figure 11. Attaching Support Rails

6. Repeat step 5 for the second support rail assembly.
7. Tighten the 8-32 x 0.375-inch Phillips truss head screws that were attached to the front- and rear-mount rails in steps 2 and 3.
8. Place the unit onto the support rails by sliding the chassis brackets onto the rails (refer to Figure 12). The unit should slide in and out of the rack easily.

⚠ WARNING: When sliding the unit out of the rack, be careful not to let the unit fall out of the rack.

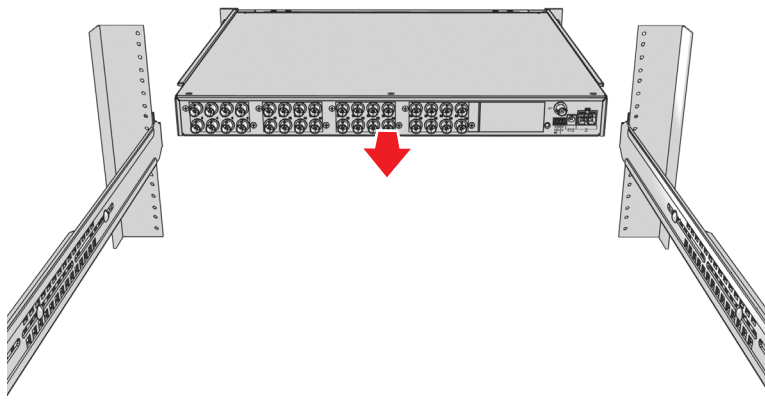


Figure 12. Mounting the Transmitter/Receiver into a Rack

9. After the unit is in place, tighten the two thumbscrews to secure the unit to the rack (refer to Figure 13).

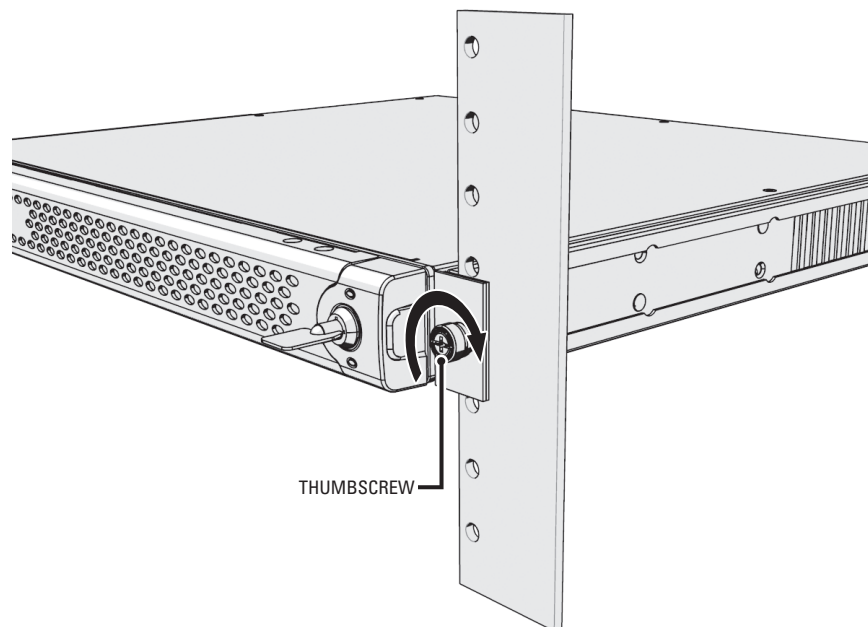


Figure 13. Tightening the Thumbscrews

MOUNTING THE TRANSMITTER/RECEIVER TO A WALL

The FT8332 transmitter/FR8332 receiver can be mounted to a wall using the WM5300 wall mount kit. The WM5300 wall mount kit provides three slots, allowing a maximum of three FT8332/FR8332 units to be mounted to a wall. For detailed information, refer to the WM5300 Wall Mount Kit Installation manual.

CONNECTIONS

Connections to the FT8332 transmitter/FR8332 receiver are made on the rear panel of the unit (refer to Figure 14).

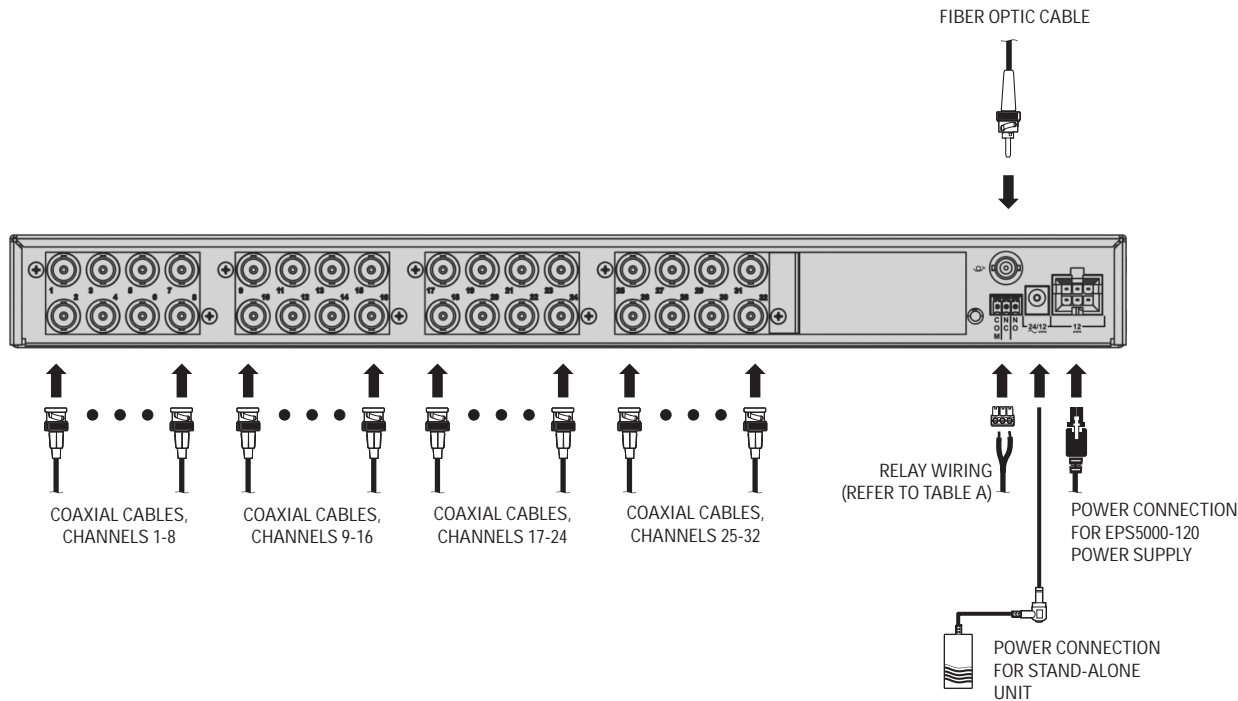


Figure 14. FT8332 Transmitter/FR8332 Receiver Connections

As illustrated in Figure 14, connections to the transmitter/receiver consist of the following:

- Up to 32 video input connections (transmitter only)
- Up to 32 video output connections (receiver only)
- Fiber connection
- Relay connection. Table A lists relay pin assignments.

Table A. Relay Pin Assignments

Pin Number	Relay Wiring
1	Common (C)
2	Normally Closed (NC)
3	Normally Open (NO)

- Power connection

NOTES:

- A 12 VDC or 24 VAC power supply can be used to power the transmitter/receiver when used as a stand-alone unit. A 12 VDC power supply is provided. If a 24 VAC power supply is used, the power supply must be a Listed Direct Plug-In Power Unit marked as Class 2 and rated as 24 VAC, 1.5 A (minimum output).
- A 12 VDC EPS5000-120 power supply is used when the unit is mounted into a standard 19-inch EIA rack. Up to two transmitters/receivers can connect to the EPS5000-120 power supply using the two power cables provided with the power supply. Refer to the EPS5000-120 External Power Supply Installation manual for additional information.
- In extreme temperature conditions, it is recommended that an industrial-rated outdoor power supply be used.

Troubleshooting

LED indicators on the front of the FT8332 transmitter/FR8332 receiver allow you to monitor operating power, video signal status, optical signal status, and laser status. To view the indicators on the front of the transmitter/receiver, remove the bezel from the unit (refer to *Removing the Bezel*). To troubleshoot the front-panel indicators, refer to *Troubleshooting Front-Panel Indicators*.

REMOVING THE BEZEL

To remove the bezel from the front of the transmitter/receiver, do the following:

1. Using one of the supplied keys, unlock the bezel.
2. To detach the bezel from the unit, pull the right side of the bezel toward you—be careful not to drop the bezel (refer to Figure 15).

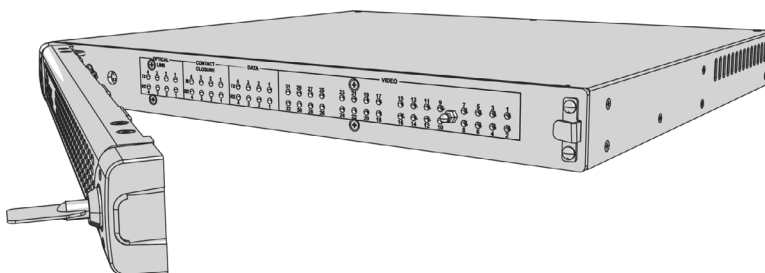


Figure 15. Removing the Bezel

To reattach the bezel, align the bezel with the unit and push the bezel inward until it snaps into place. Lock the bezel.

TROUBLESHOOTING FRONT-PANEL INDICATORS

Table B provides information about the front-panel indicators and associated troubleshooting guidelines..

Table B. Troubleshooting Front-Panel Indicators

Indicator Color	Meaning	Possible Cause	Corrective Action
Power LED (Pelco badge)			
Not lit	Power is not being applied to the unit.	Power connection is faulty.	Check power connection.
		Power supply has failed.	Replace power supply.
		Loss of power occurs due to tripped circuit breakers, blown fuses, or faulty electrical service.	Check circuit breakers, fuses, or electrical service as necessary.
Video Present LED			
Red on transmitter	Incoming video signal is not present on the channel (video loss).	Power is not being applied to the video source.	Check power connection to the video source.
		Video source is not connected to the transmitter.	Check BNC connections.
		Coaxial cable is defective.	Replace cable.
Red on receiver	Incoming video signal is not present on the channel (video loss).	Optical signal is not being received from the transmitter. RX Optical Link Loss LED is also red.	Refer to <i>RX Optical Link Loss</i> on page 16.
		Power is not being applied to the video source.	Check power connection to the video source.
		Video source is not connected to the transmitter.	Check BNC connections.
		Coaxial cable connected to the transmitter is defective.	Replace cable.

Table B. Troubleshooting Front-Panel Indicators (Continued)

Indicator Color	Meaning	Possible Cause	Corrective Action
TX Optical Link Loss			
Flashing red	Laser has shut down.	Transmitter is operating in extreme environmental conditions; for example, operating temperature is below or above recommended range (refer to <i>Specifications</i> on page 17).	Ensure that transmitter operates according to recommended operating conditions, and then cycle the power. If problem persists, contact Product Support at 1-800-289-9100 or 1-559-292-1981.
		Laser has reached end of life.	Cycle the power. If problem persists, contact Product Support at 1-800-289-9100 or 1-559-292-1981.
RX Optical Link Loss			
Red	The optical signal is not being received from the transmitter.	Power is not being applied to the transmitter.	Check power connections. Replace power supply if necessary.
		Fiber optic cable is not connected.	Check fiber optic connections.
		Fiber optic cable connectors are dirty or are damaged.	Clean, polish, or replace fiber optic cable connectors as necessary.
		Fiber optic cable is defective.	Replace cable.
		Optical dB losses in the fiber optic installation exceed the optical power budget specification (refer to <i>Specifications</i> on page 17).	Check for problems with the fiber optic installation, for example, excessive dB losses in connectors, splices, patch panels, cables, and so on.
		Optical dB losses in the fiber optic installation meet the optical power budget specification (refer to <i>Specifications</i> on page 17); however, the receiver may be defective.	Contact Product Support at 1-800-289-9100 or 1-559-292-1981.

Specifications

VIDEO

Number of Channels	32
Modulation Type	Pulse code modulation, 8-bit resolution
Video Input (FT8332)/ Video Output (FR8332)	1.0 Vp-p, 75 ohms; NTSC, PAL, and SECAM
Bandwidth	6.5 MHz
Gain	Unity
Crosstalk	-50 dB typical at 3.58 MHz
Differential Gain	<1%
Differential Phase	<1.2°
Tilt	<1%
Signal-to-Noise Ratio	>60 dB (CCIR weighted)

RELAY

Relay Output	1 A at 30 VDC Choice of normally open or normally closed
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GENERAL

Operating Temperature	-40° to 167°F (-40° to 75°C)
Input Power Requirements	12 VDC or 24 VAC, 1.5 A
LED Indicators	Power Video Present (per channel) TX Optical Link Loss (per set of 8 video channels) RX Optical Link Loss (per set of 8 video channels)
Dimensions	16.7" D x 17.0" W x 1.7" H (42.4 x 43.2 x 4.3 cm)
Unit Weight	11.4 lb (5.17 kg)

MECHANICAL

Connectors	
Video	BNC (per channel)
Stand-Alone Power	5-mm barrel connector
Rack Power	6-pin connector
Fiber Optic	ST for multimode and single-mode fiber
Auxiliary Relay Output	3-pin header
Construction	Steel cabinet
Finish	Bezel: gray metallic with black end caps Chassis: black matte finish

OPTICAL POWER BUDGET AND TRANSMISSION DISTANCE

Model Number		Wavelength	Optical Power Budget	Maximum Transmission Distance
Transmitter	Compatible Receiver			
Multimode (62.5/125 μm)				
FT8332MSTR	FR8332MSTR	1350 nm 1325 nm 1300 nm 1275 nm	18 dB*†	1 km (0.6 mi)‡
Single-Mode (9/125 μm)				
FT8332SSTR	FR8332SSTR	1350 nm 1325 nm 1300 nm 1275 nm	18 dB*	26 km (16.1 mi)§
<p>*Optical power budget is 15 dB when operating temperature range is -40° to 0°C.</p> <p>†When using 50/125 μm multimode fiber, subtract 3 dB from the optical power budget.</p> <p>‡Maximum transmission distance is limited by fiber bandwidth.</p> <p>§Maximum transmission distance is based on attenuation of 0.5 dB/km plus a 5 dB buffer for connector and splice losses.</p> <p>NOTE: For models with higher optical power budgets, contact the factory.</p>				

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on fiber optic products and TW3000 Series unshielded twisted pair (UTP) transmission products.
- Three years on Spectra® IV products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on DX Series digital video recorders, DVR5100 Series digital video recorders, DigitalSENTRY® Series hardware products, DVX Series digital video recorders, NVR300 Series network video recorders, and Endura® Series distributed network-based video products.
- Three years on Camclosure® and Pelco-branded fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra III™, Spectra Mini, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Two years on Intelli-M® eIDC controllers.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid.

 **Green** The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

REVISION HISTORY

Manual #	Date	Comments
C2652M	1/08	Original version.

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